The nevv and admi-

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With all the necessarie Tooles and other Circumstances belonging to the same: the particular titles whereof pare set woll a downe in Page the manual of sollowing and downe and the same set woll a sollowing and downe and the same set woll a sollowing and the same set with the same s



Magnus Deus in minimis.

Imprinted at London by Peter Short, dwelling at the figure of the Starre on Bredfreet bill.

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The Contents of this Booke.

nging to the fame: the I How this invention becan.

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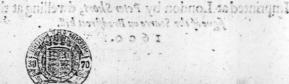
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supor tentata tribici plantatio at Deforta propter moleghas & labores Bacon Sylven to Garum Exp 442.





The new towns Arte of

how Cuarl Linely and it a sent

Eere I may rather probably conjecture then certainly determine how this new conceit in ferting of graine began. Happily fome filly wench having a fewe cornes of wheate, mixed with fome other feed, and being careleffe of the worke thee had in

hand, might now and then in steed of a Raddish or Carretseede, let fall a wheate come into the ground, which after braunching it selfe into manie eares, and yeelding so great increase, gaue instruction of some farther triall. Petaduenture the great and rich fertillitiethat doth vsually happen in the setting of beanes and pease, might stirre vp some practising wit or other to make the like experience in wheate and barley. Or who knoweth whether that Enigmatical marriage between e Backhus and Ceres so closely couched in such signature termes by tohan Baptista Porta, in his Magia naturalis in the perclose of his title, de nouis plantin producessis, might give some light vnto this new and late invention of ours. And lastly, I have been

THE SECTION OF THE PARTY OF THE

eredibly enformed that this manner of pricking in of come, hath by the publike impression of an ancient writer (whose name I cannot yet obtaine) enen in plaine and naked termes beene long fince difcouered and manifested to the view of each reader. But it shall not greatly skill from whence this profitable deuise had his first beginning (although for the honour of my countrie, I could with the fame were fronted with the name and title of an English Authour) and that as it hath pleased the great God of heaven in his vnfpeakeable mercieand loue, and in these times of dearth and penurie, to offer amost plentifull-encrease of our best nourthing, Mannayntovs: so that wee may in all dunfull manner, with one heart and voyce together, give all thankes, honour, and braile ynto fo great & bountifull a benefactor, whose name is glorious in the heavens, and whose mightie power extendeth it selfe over the face of the whole carth. cui laus in facula faculorum. Amen.

CHAP. 2.

The reason why Corne doth shoote up into sa manie des

the confideration hereof may well describe handled in the second place, in my opinison, both quia turpe est Philosopho quidquam sine ratione proferre, as Tully holdeth: and also for that it is a principall motive to stirre vp a number of drowsie wittes to the practise hereof; who not as yet finding or conceiting any sensible reason for the same, are rather content with the sty-bitten and leane iades; to live or starue vpon the bare common, then by seeking

020

out

out of better pallane, togather more fielle you their backes and to grow in bence liking in the light of all that fitall behold them Such winter come then as is vfirally fowne before on about Adhallownide in my poore reason mult of recessive loose's great part of his generative vertue and radical humiditie both by the extreme nipping of the cold Northren and Eafterly winds, and the bitter frostsland have together with the great aboundance of the cold raynig howeisi which in the winter feafon doe fo plentifully attach and fall vppon the graine lying then either naked and bare to all weather or very flenderly clothed with a poore and thinne garment, not able fufficiently to defend the inward and secret fire of nature, from such outward and pietcing enemics; yea, though it have taken roote; and gotten some head before this boifterous weather doe happen, yet by reason that the boote, is shallow, and bath taken so flender fiold in the ground seither the inward Balfamam is washed away with moisture, or nipped with extreme cold, that it cannot possibly fend forth fo manie spiring stalkes and eares as naturally it would, befides, the earth being full of clods, and poe fufficiently brokeno into a fine mould with the plough, the corne cannot fo eafily and plentifully by this attractine hature draw for his owne nourifhment fuch flore of that vegetatine falt from the earth. as it defireth; the verthe and firength wherefis more at large mandled io my booke of husbandrie, print red Anno 1794. and in that learned difcourse of M. Bernard Paliffy in his booke intituled, Deseaux de Faireives, But on the other fide, when as the cornes of wheatofhall liofo deepe within their true and name turall This

nerall bed, even their owne mothers belly, the earth being made to hollow & open with the spade, where by they may also draw fufficient nourishment at the in pleasure, them are all these outward and injurious stormes of haile and raine, so sufficiently defended by this armour of proofe, as that the corne having his me and naturall purifaction (being not performed without the helpe of a kindly heate) doth afterwards in his dide season bring fouth that infinite multiplication, whereof we have had so manicand rich experiments of late, farre beyond all the hopes and harvests of all our predecessions.

ficiently to defend the sound and secret fire of nature, sidential forming the said for man and T. yea, though it haushilder wan it is in about the beach before this boilterous weather, doe happen, yet by

Hen and how to digge, weed, drivertch wone servounds with the spade visa matter so triviall Covidon as that I hold it not a fit fubicct for a scholerspenne, and therefore here I must referre you to thole beaten pathes, wherein eueric fimple Gardener hath walked a long time a onely the depth of digging, and true laying of the ground, feethes to be maretialt in this our new kind of husbandrie. Some in this late practife, by their experience commend the breaking vp of the ground to foote and a halfe deeperand Tome two foore and fonte burnhe footes but in averabilion fince that the depar foure, or fine inthes arthemoff is a fufficient deputi for the corne to lie in Plee no reason but that eight or twelve inches more, is a depet fufficient for the course to roote in This

of setting of Corne.

This being graunted, then thall you have this far ther benefite enfuing, that at the next breaking vo and digging of your ground, you shall mime up suth mould as hath not spent his thrength in the former croppe, the fruite whereof you shall find in the next harueft. And heere'I must of necessitie acknowledge that M. Tauerner in his booke of Experiments, com cerning Fish and Fruit being of this yeares date bath bereaued me of one of my best observations in Orv chardgrounds, the ignorance whereof I holdto bee one of the especiall and principall capses that so many of our English orchards do never yeeld fruite answerable to our charge and tranell the fecret whereof is this briefly. Eueric ground hath naturally an upper crust of earth, which by the linely and viuifying heat of the Sunne, the comfortable nature of the aire, together with the congelative part of the raine (forfo M. Bernard Palifie termeth it, being the furt Author of a fife element) which often falleth your the ground, is made more rich and fruitfull then all therefidue of the earth belides, which voper cruft in some ground is a foot, in some two, and in somethree foot deepe and in some novaboue halfe a soore. And vnl derthe lame upper crust is either a hote chalke, a drie fand, a barren granell, or a cold leane clay or lome. or fuch like: It is therefore requifite that you fet your young trees in fuch fort as that the rootes may runne and spreade within that upper crust cand if you fee them deeper, they may happily grow, burnever bring forth fruit in any plentifull maner : nay though the earth should consist of one and the selfe same veine, and of one colour and nature in fhew, yet because the Sun doth not give his impression nor digestion

Lorner found Arte

vnto the carth, but to a certaine depth (which I gueffe' not much to exceede two foote) you shall find that all the reft of the mould under that depth wil be leane and hungrie, not having any strength or fatnesse in it. And this is the reason why such earth as hath beene digged out of vaults and Cellers, not having receiued any life or comfort from the Sunne beames. though of neuer fo blacke and rich mould in outward apparance, if it bespread vpon garden grounds. doth make them vtterly barren and vnfruitfull. That which is heere spoken of Orchard grounds, I would haue all wife and skilfull husband-men to apply alfo to their corne grounds, that in anie case they neuer digge deeper with the spade, then the strength of the ground will beare, and fo by their ignorance difcredite a worke and practife of so great expectation. Now concerning the laying of your groundes, either in ridges and furrowes, or in a declining levell, whereby the raine may have a fufficient conveyance, after they have once received their due moisture from the cloudes: this resteth in the discretion of the husbandman, who best knoweth the moisture or drinesse of his owne grounds, and accordingly may give fuch a current vinto them, as may best fit the seuerall natures of each ground or foyle. And heere I may not omit that ease and speed in breaking vp of grounds, which fome of our late practifers have found out by making the first entrance with a deepe cutting plough, and then purfuing the same with the spade, wherby much charge, labour, and expence of time is an oyded.

the Sun doth notgine his impression nor algestion

Mussed rev. worft ni stetten bos ruelos en CHAP.

CHAP! 4. mi mountaint no

The severall instruments for making the holes for the graine, and covering them.

T is an olde faying, that handes were made before kniues : and I doubt not, but the same may aswell be verified in tooles. For to my remembrance, the first man that euer attempted the fetting of corne, made the first holes with his finger. But this course being afterwards found to bee very long aud tedious, an infrument was deuised having many teeth or pinnes, like a rake, with a staffe fastened in the middest of the backside thereof, which being thrust into the ground, did at one instant make twelue or twentie holes more or leffe, according to the number of teeth or pinnes therein. Afterwardes this toole was also disliked, as not making sufficient riddance of ground, and in place thereof aboord of three foote or thereabout in length, and twelue or ten inches in breadth, was thought voon, having divers holes boared therein, according to fuch distance as euerie particular man best fansied, through each of which holes a woodden dibber or pinne was thrust into the ground, being of the bigneffe of ones finger, and of three or foure inches in length, having a shoulder or hole with a crosse pin, to keepe one selfe fame certaintie in the depth of each hole. The last devise that as yet hath come to my view (but now reiected, because in the drawing out of so many pinnes the holes do choake) is a boord of the fame largenes with the former, driven full of round pinnes of three or foure inches deepe within the boord, and placed

each from other in equall distance by a true proportion, which at one impression maketh so manie receptacles for the corne, as there be pinnes in the boord. These boords are directed by a Gardiners line, first strained to some reasonable length, or by the eye, and thereby a straight course is kept in the setting. When each hole bath received a corne, then must you rake ouer the ground to fill vp those holes with earth againe: and during all the time of setting and raking, you must stand or kneele vpon one of your boords, which you must remove from place to place, as your

fetting and raking from time to time requires.

Heere for the fatisfaction of the fimple, I have thought good also to set downe the length of your boordes, together with the true boaring of them betweene each hole: and therefore if you have five inches distance, then may you in a boord of ten inches broad make two rowes of holes, the first and last hole being two inches and a halfe from each fide, and if the length thereof be two foote and eleuen inches, then may it well containe two rowes of holes, hauing seuen holes in euerie rowe, the first and last hole being distant from each end two inches and a halfe: and when the ends or fides of two fuch boords for bored, shall bee laid together, they will make a true continuance of one selfe same skantling and distance of fiue inches through all your workes: if you worke vpon foure inches, then leave at each fide and end of your boord two inches: and so in a boord of three foote in length, and one foote in breadth, you shall haue nine holes in each rowe one way, and three holes the other way.

And it is to be remembred that eucry two worke-

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men (whereof the one maketh the holes, and the other setteth the graine) must have two boords to work vpon: and yet some be of opinion, that one man may performe both the works.

CHAP. 5.

At what depth and distance your corne
must be set.

Haue beene enformed that the observation of three inches deepe, and three inches distance, hath brought forth 30. quarters of wheat youn one acre of ground, and that foure inches in depth, 63 6966 and foure in distance hath yeelded but twentie quarters: happily the ground or the feede corne might 4 miles 20? make the difference. Some speake of five inches deep 392040 Abrifa and fine in distance, with exceeding great encrease: 5 inch the true finding out of which proportions may easily 250 905. be obtained by feuerall trials made at feuerall depths and distances together, at one time, and in one selfe fame peece of ground. Only heere I must remember you of that which was spoken of before, in the title of digging, chap. 3. that concerning the depth, you must haue an especiall care, that your feed may lie within the rich crust of the earth, and that his bed wherein he lyeth, may also bee of the same goodnesse, or else the plough will discredite the spade.

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CHAP.

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casbrood pass Chap. 6.

F the ground be a rich and kindly wheate

Whether it be good so fill the holes with common earth, and to prepare the feed before it be fet.

ground you shall find a sufficient increase by filling them vp with their owne proper mould: for fo have the greatest and most vsuall trials beene hitherto made alreadie; yet some pregnant wits, defirous to exalt nature to the highest degree of perfection, have attempted the filling vp of those holes both with Pigeons dung, sheeps dung, and cow dung, and fuch like, but with no good fncceffe at all, quare if this dung had been first rotted into perfeet earth and then bestowed. Neither doe I see anie reason in fat and lustie grounds, why any further encrease should be sought for then hath beene found already, for that the earth is not able to carrie a great ter burthen, then she hath borne of late by these viual practifes which have beene made. But in barren and fpent grounds, it were greatly to bee withed, that by fome artificiall and cheape meanes, a plentifull croppe of corne might be had and obtained. For the better furtherance whereof, I leaue'these few conceits to the fauorable confideration of those, whose farmes are greater then mine, and have had more familiar conference with nature then my felfe, referring them also farther both vnto the literall and fecret sence of my booke of Husbandrie before mentioned. And heere I thinke it not amisse to cite in the first place that learned and poeticall Husbandman, who in his first booke of his Georgickes hath these Hexamiters.

Semina

of Setting of Corne.

Semina vidi equidem mulios medicare serentes

Et nitro prius, & nigrapersundere amurca:
Grandior vt sætus siliquis fallacibus esset,
Et quamuis igni exiguo *properata maderent;
Vidi lata diu & multo *spectata labore
Degenerare tamen: ni vis humana quotannis,
Maxima quaque manu legeret, & c.

* Citò coquerentur. *Probata.

Here we see falniter and the mother or Lees of ovle commended, but whether Virgill doe meane a steeping or imbibition of the graine in the Lees of oyle, wherein there hath beene a folution of Niter, or the corne onely fprinkled ouer with them both in the fetting: it is left to the confideration of the reader. But howfoeuer he intend the fame, our countrie doth neither afforde store of Niter, nor yet of Amurca, to performe many (if any) acres therewith; and though it did yet would it proue a worke of greater charge and trouble (as I suppose) then would be endured: vnlesse it were in some small practise, and for the triall of a magisterie, or vpon some richer seede then wheat which in leffe quantity would proue more profitable then any ordinary graine, whereof there are some fewe of English breede, if I bee not deceined.

But now let vs leaue Virgill to his poeticall vaine, and let vs come to that glorious Neapolitane Iohan. Baptista Porta, who expecteth a generall applause of the whole world, for his last and learned booke of Magia naturalis (as in his preface to the reader, by a recapitulation of all his infinite readings, charges, and conferences with the greatest clarkes of his time, he would intimate vnto vs) and washing our eyes first

B 3

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in Eyebright water, let vs see whether we are able to pierce and penetrate into these thicke and foggie clowdes of skill, which he hath in so many close and figurative termes (as willing to vaunt of his owne wit, but vnwilling to benefit others) so strangely delivered vnto vs. I finde in the latter end of his third booke, entituled de nouis plantis producendis, and over the 21. chapter, this superscription.

Quomodo fruges satis amplo fænore ex satu colligamus, & è vineis vinum.

Whereupon he discourseth in manner following: Vt lucalentam, satisá, exoptatam coronidem huic nostro libro imponeremus, docebimus quomodo frumentacea, & legumina satis amplo fænore è satu colligamus, & è vineis vinum. Res profecto immensa vtilitatis, vt ex vno modio plus centuplo proueniat. Sed ne quis, quod centuplum plus accipiet, dixerim, putet velim hunc exactum modiorum numerum ex vno sato collecturum : namanno, cælo, solo, & syderibus renuentibus, minor erit collectio, sed non tam minor, quin quintuplo vsitatum non superet; at his fauentibus, ex uno modio centeni quinquageni reddentur. Sed pollicitatio hac nostra aliquibus paradoxum videbitur, sed si sana mentis essent, maximum profecto videri deberet paradoxum, cur ex sato semodio ducentos modios non recipiamus, quum ex Sato, & concepto acino, videamus radicem in multiplices & numerosos culmos fructificare, plus minus quindecim, o in spica sexaginta grana contineri? mitto ByZacij Africa solum Pliny, quod vno grano quadringenta paucis minus germina miserit, misitá, ex eo loco procurator Neroni cccx1. ftipulas ex vno grano. Sed caufam venemur, vnde id accidere possit. Sunt qui disant id evenire, quod pars maior iacti frumenti

menti ex valucribus, talpis, vermibus, alifg, fubierraneis animalibus devoretur. Sed idfalfum arguitur, quod ex fato lupini modio non plus minus quindecim recipiuntur, quin . lupinum impune iaceat derelictum, ab omnibus animalibus Sua ingrata amaritudine tutum & Suis in thecis, vaginulifá, plus minus centum grana contineantur. Sunt aly, qui id calo ascribant, frigorum, calorumg, iniurys, vel imbrium frequentis, vi nunc torpeant gelu arua, nunc siti infestentur, nunc in herbarum copiam luscurient, nunc macie intabefcant; sed boc falfum congruit argumentum, quod ex maximo cœli fauore, neque ex uno triceni redduntur. Sed ne latius eurgemur, dicimus non omnia spica & vaginula grana nasci, nam alia Deus ad escam animalium, alia ad semen destinauit. Sunt in spicis grana, quasi abortus & degeneres fætus, quanon fæticant fed desciscunt in vitium. Sunt quaè glumis in spicis emicant habitiors, qua ad propagationem producuntur. Preterea nec debito tempore seruntur, destituuntura debito agricalarum opere: unde si his obuiabimus; omnia ex voto succedent. Semina enim prolixioribus radicibus implexis, longe latéque sub tellure serpentibus, numerofiores culmos deproment, circumundiá, spicis vallatis. Sponsa ergo suo viro ducatur, non ex primis vel vltimis natis sed è medys, quia imbecilles funt, ac balneo secreta & vnguetis delibuta & pingui depasta caprarum veterum Vulcano, & Baccho associata cubile molle, & optime stratum calefiat: viuifico enim calore in amicam naturam coeunt, & dulcioribus amplexibus stringuntur & harent. Sic animata viro semina, non degenerem, sed legitimam prolem donent. Suo facundo lumine Luna prasit, nam serax seracem reddit, id restat pramonendum, vxorem Baccho ducendam non capillis destitutam, nam suo decore capite destituto spernitur à viro sponsa, neque haberet, quo noxia purgarentur, sed solum cincinnis orbetur; sic enim minus compta, plus sua placebit

I DE HEW JUMPA ILIVE

& vire. Which for the better understanding of such as are no Latinists, I have thought good to translate into our natural language, as followeth.

How by setting and planting of Corne or vines, a great and plentiful encrease may be had.

That now at length, according to mine own defire, I may thut vp this booke of plantes with a most famous and renowmed conclusion. I will heere declare how all kind of corne and pulfe, together with the vines themselues shall recompence all our labours with great encrease. A matter without all question of fingular profite, to receive more then an hundred bushels for one. But least I bee mistaken in this great proportion, I would not have any man to thinke, that I doe heere fet downe anie exact number of bushels, from which nature can at no time varie: for if the yeare, the heavens, and the ground it felfe, together with the fatall influence of the starres, do all conspire together, the number of our bushels will fall short, but never so short, but that they will by fiue degrees exceede the accustomed yeeld. But if all these concurre and affoord their seuerall fauours, then may we wel expect 150. bushels of one. But this proud promife of ours may happily feeme a paradox vnto fome, vnto whom, if they were of any found & sharpe iudgement, it should rather seeme a greater paradoxe, why halfe a bushell should not rather give 200. hundred bushels againe, when as we do often see, that one corne being fet and well rooted, doth stemme vp into diuers stalkes, yeafometimes to the number of fifteene, more or leffe, each eare also containing threeof feeting of Corns.

threefcore comes within it. I do heere omit to fpeake of Bizatium, that fruitfull ground of Africa, whereof Plinie maketh mention, where out of one corne foure hundred stalkes did braunch : and the Governour of that place did also fend to News 40 fem mes arifing from one graine. But let vs lecke out and hunt after the true reason hereof. Some be of opinion, that the cause why the same fertilitie doth not happen in our vitiall and ordinarie manner of fowing, is, forthara great part of the feed which is fowner is demoured by the foules of the aire, by Moles, wormes and other creeping creatures within the ground. But this is manifefly disproued in the sowing of Lapines, whereas feldome we do reapelinte more or leffe then fifteene buffiels for one, although the fame be fo bitter akind of pulse, that none of all these devouring creatures will once touch it, but lieth fafe within his hofe, each codde containing much about an hundred graines: fome attribute the same vinto the heavens, and the injuries arising of heate, cold, and continual showers of raine, that do often happen; fo as fometimes the grounds are benummed with frofts, and fometimes parched with heat, somtime they make a rich & fertile fliew, and fometimes they wither and waxe barrens but all this is eafily continced. For that admitting that the heavens do afford all their favourable influences at once, yet do we fcarce obtaine at any time thirtie for one! But now to come neerer to our purpole, wee do affirme that each come that is found within the care is not apt to grow, for God hath created fome of them for the food of living creatures, and fome for feed come. There be in cuerie care certains aborring and baftardlie cornes, which will never fructifie; but become

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bécomevtterly vnprofitable; and in some cares there are cornes which are more beautifull to behold then the rest, which nature hath ordained for propagation. Besides all this, the seed it selfe is not alwayes fowne by the husbandman in his due time, neither hath it all his due rites and ceremonies perfourmed. So that if we can meete with all these imperfections and errours, then will all good fucceffe follow, according to our owne hearts defire. For the rootes being large in foreading under the ground, and each imbracing other in their manifold wreathings, will thereby fend forth a greater number of stemmes, beset and garnished with eares on everie fide. For the better accomplishment whereof let the bridegrome make choice of fuch a wife as is of the middle fort, and not of the first or last borne, because they are of a weaker constitution, let them both goe into a warme bath, and there annointing themselves with sweete ointment, and with the fatte food of old Goates, being mixed with Bacchus and Vulcan; let their foft and even layd-bed bee gently warmed: for by that viuifying heat they will vnite themselves in an amiable maner, and beeknit and joyned together in most sweet and louing imbracements: and the feede being thus quickened by the powerfull heate of the man, will in the end bring forth akindly, and no bastardly iffue: Let the Moone be predominant with her prosperous light, for flee being fruitfull, will also make the same to fructifie the better. But yet I must admonish you of one thing more, that fuch a wifeas is fitte for God Bacchus, must not bee bald and without haire, for so wanting the due ornament of her head. fhe

ther might happily be despised of her husband, heither should shee haue whereat to punge her owne excrements, onely let all curlings and perriwigs bee laid aside, that so being the more retchlesse in herattire, shee may seeme more pleasing and acceptable to her husband.

And what if all this myfficall marriage betweene God Bacchus and the Goddesse Ceres (at the solemnization whereof onely Vulcan and Luna were present. as though neither Saturne, Inpiter, Mars, Sol, Venus, nor Mercury, nor the rest of that celestiall crewe were neither worthie to dine nor daunce at the Wedding) what, I say, if all this great mysterie or Magisterie of nature, as Baptista Porta would have it to appeare, bee nothing els but a foking of corne in wine, or in the new must thereof, before it bee set? Might not this without the prophaning of Nature. or her facred Maximes beene fafely and without offence in plaine termes deliuered to the publike view of the worlde: But let vs examine the particulars of this parable. The wife (he faith) must neither be of the first nor last, but taken out of the middest: and here, because hee shall be his owne expositor, I referre you to his secrete for enlarging of the Gourd, pag. 137. where he citeth these verses out of Columella,

Siue globosi Corporis atque vtero nimium qua vasta tumescit Ventre legas medio, sobolem dabit illa capacem.

And this, faith Porta, is not onely to bee observed in this plant, but in all others likewise, for those seedes which are contained within the middest of the C 2 bulke binkeare more perfect themselves, and bring forth more perfect plants then these weake and imperfect ones, which occupie the outtermost places, and so the graine, her faith, in the middle of the eare bringeth forth a larger come then those which growe in the toppe or bottome thereof.

Concerning the bath and ointment wherein Vulem and Bacchas are vsed, I thinke he meaneth some fat
temper made with cowdung or Goates dung, the
older the better, moistened with wine or new must,
whereby Bacchas is fignified, in whom the secret fire
and heate, which he holdeth, may also resemble Vulean, under whose name fire is sowetimes fignified, as
in that saying of Paracellus, in Vulcano veritas: and in
this compound the goddesse Ceret is slapped before
she be set into the ground, or else the ground and mixture are after watered with wine, or els the corne
is first steeped a certaine time in wine before the
graine is bestowed in the earth: anic of these construetions seeme probable, and to have some affinitie with
his figurative termes.

whereby he doth manifeltly infinuate the very digging with the spade, which worketh the mould into a most fine and subtill bodie; the warning of the bed, and those sweete collings and clippings together are intended to be wrought with the moistning heat of Bacchus. It seemeth also that he would have this setting perfourmed in the increase, or toward the full of the Moone. The corne he would have to bee set together with his chaffe about it; which he termeth the haire; whereby nature purgeth the excrement of the head, but not with the beard of the care, which hath

of fetting of form?

a curled kind of graine sport ito Levels fatisfic about have aimed at the marke, the pinne being for farre off, and cleane our of fight. But what thould we vexe our fpirits in beating out the fenfevof this myfticall Lasine when as without all other chrownhance wee fee that ove coune pricked intenthe ground bringeth forth eight hundreth cornes at once, whereas Parta fpeaketh of two hundred onely at the most even whe heapen and earth doe all joyne hand in hand together to helpe his innention es And who knoweth whether he mistake the reason of his owne conceipt. for happily the Mellownes of the ground being opened & broken with the spade, did of it selfe performe the great wonder which he writeth of and then both Bacchief and Geven and Luko may trank lacke Drings entertainment omolo

Now if I were also disposed to attire and disguise a plaine secret in his figurative robes, what a deepe of drunken riddle could I here set downe of steeping barley or wheat in new ale in comes (although I hold the wort, so it be of the first tap, to be much better) for this doth seeme to be his downe naturall bath, whereby it should receive a multiplying vertue in his lowne kind. I seare to prosecute this sector and fatther in such Philosophicall termes, lest some nouice in Alcumie should suppose that I do goe about to visible and disclose the facred materials and working of the Philosophies stone, and yet to speake in good sooth, I durst vindertake to persourne as much with ale or beere as Bap. Porta shall do with his sacke and sugar, or Claret wine and Limons, let him make his choice.

And because Virgilhath spoken of Niter, I have thought good also, as a Paralel to the same out of M:

The new found Arte

Bar. Googe his booke of Husbandrie, fol.33.b. to fet downe the steeping of Beanes in the water wherein Salt Peter hath been dissoluted, and why not other graine and pulse, as wel as Beanes. And thus you have Rome & Maples answered with Surrey and London, Apray God all may bring forth one good conclusion

for our common-wealth of England.

But why should we spend these costly liquors that are fitter for Tauernes & Aleboufes, then for rufticall imbibitions when as with common water and the dong of canell cipecially of Oxen, Kine, and Sheepe, or Pigeons dung (wherof more quantity, with a great deale lesse charge (being not much inferior in effects) may fo easily be had & obtained) Then heare me with patience &if I happen to flip, flay me with a friendly hand, and so happily I may saue some of you from many a dangerous fall. There is a great opinio conceited. yearpublikely maintained by good Authors in their feueral books about imbibition of corne in some fat and fructifying liquors; but neither the strength of the liquors, the time of imbibition, nor the proportion between the liquor & graine, hath as yet bin thoroughly founded nay scarfely touched by any; which three points I holdeto be so materiall, as that without the knowledge of them al in some good measure, nothing elfe but clamors against the writers, and errors in the practizers are like to enfue.

And first concerning the strength of your liquor vpon your dung, you cannot lightly erre, so as you let the same rest vpon a sufficient quantity thereof, vntill it have gotten a deep colour, and a strong smel & sauour fro his ingredient: as suppose you put two parts water to one third part of dung, suffering the same to insuse

foure

of Jetting of Corne.

four dir fine daies, attiditiving the fame once of twice enery day, till it have gotten out all the hart & firength of the dung, or so much there is a the water is able to receive; the after some setting, strain this liquor through some course cloth, & if it will not run, then adde more water vnto it, for here your speciall, dare must be, that your liquor do not grow too thickes after at this, let the same repose 12. or 24. hours, & then gently dreine away the electe from the grounds of setically residence, and so have you aliquor sufficiently prepared to steep your come in: & for the better personnace hereof, you may boare a hole within an inch of the bottome of the vessel, or halfe an inch, according as you shalsee it same to run theere & not middy into your receiving wellel.

And as for the time of imbibition dt is a tule in patus rall Philosophie, that every thing hath his stomacke which doth neuer leave drawing & attracting vnto it felfe fuch matter as is apt for it, vntil it be glutted; and then as being overcharged, it loatheth and spueth out even that which otherwise it most desireth as it doth manifestly appeare in the stomacke of man, wherin by ouergorging it self a Naufea doth presently ensue. This is vermade more manifest in the art of dying, where, if in your bleves and greenes you worke with Indico, or in Stammels, Chimfons, Carnations or Scarlets, you worke with Greine or Kutcheneele, the cloth when it hath received his glut of colour, though never for often dipped after, wil bothing at al exalt it felfe in beauriedrichnes of colour duen fo it fareth with corne, after it hath imbibed fo much liquor, as it can well beare and brooke without breaking of the hull, then is it time to dreine away the water: and yet wee feel that Peale, though they bee fleeped till they -uoh

Luc new Journa Afric

they sprowed little, that they will grow notwithstanding, I leave the addiencuring of wheate and barlie so farre vinto them, that list by often and manifold trials

to fearch for the period of this practife. with a dr. puiso

Lattly for the better finding our of a true proportion betweene the come and your liquor a first, put your come in the vesselland adde so much of your fat liquor water will cover the same. And if the corne danke it vp, then adde more liquor the tuntor and the onely scare in this worke, is teast if you ouercharge your come with water, that the water will rather draw the strength from the corne, then the corne draw strength from the water.

And thus Lhaue discourred the true vse of all imbibitions: which have hitterto beene confirmed by some and condemned by others; each severall man reporting according to his owne experience. But the errours may from henceforth be easily prevented by a carefull observation of these sew rules already delinered in as plaine and simple a maner as (respecting the general good, which was the primum mobile of this Discourse) I could possibly deuise or publish.

Heere Ithinke it not impertinent to our purpose to set downe source all means for the enriching of ground; the trials whereof, by way of imbibition, I acferre to

worke with Greine osonoragenslubing and alive show

Sea Kilpesand fea Tanglo, and other fea weeds are found by experience to enrich both arable and par flure grounds exceedingly. Shreeds of woollen cloth fliewed spon pasture ground will bring forth graffe abundantly?

The dregs of beere and ale applyed to the rootes of trees, and other finaller plantes, will make them the state of the sta

a Jeung of orne

flourish and prosper mightilie. Seeds fleeped in brine, proportioned according to Sea water, which confideth of one past lake, and cyghteene or twentie parts water, wil in divers grounds procure a good encrease.

The Soote of Chimnies, both ingendred by Seacoale, as also by wood and charcoale in a very small

quantitie, worketh great effects this way.

There is a falte which the Petermen vpon the refining of their Peter, doe separate from the Peter, this salte (if I be not deceived) is the salte purchased from the ashes, vpon which the Petermen powre their foggie liquors to cleere them; one worke (vnles it be a great one) doth not yeelde much about a bushell thereof weekely: this salte I take to be a trew vegetable salte, and therefore exceeding profitable, either to be strewed vpon grounds to be mixed amongst the seede corne, or for imbibition.

shauings of horne, vpon mine owne experience, I must of necessitie commend, by the meanes whereof, I obtained a most flourishing garden at Bishops hall, in a most barren and vnfruitfull plot of ground, which none of my Predecessors could ever grace or beautistic

either with knots or flowres. afterne auch

I have had the like experience with fingular good fuccesse by strewing the waste sope as the voor a border of sommer Barlie, whereof three cares would have counterpeized any five that ever came to my sight; you may see a plentiful discourse of these sope as the sin my booke of husbandrie.

Some commend greatly the watering of ground presently after it is sowne, with an artificial Brine, confishing of an eyghteenth or twentith part of salterthis is performed by a hogshed or some other such like vel-

fell

Lbenew found Ante

fell drawne your affed, having one of the heads boared full of small hoales like a watring por

Therefidence or grounds of the Oad fat, feruealfo water, wil in divers grounds pr. drive bourg chine of

Malte dult may heere also challenge his place for foure or fine quarters thereof are fufficient for an acre efficientlis wa

of ground.

The hulles which are divided from the Oates, in the making of Oatmeale, either in their owne prefent nature or being burneto ashes, make an excellent subflance for enriching of ground. Fearne either rotted to dung by a mixture of earth amongst it, or confumed with fire into alhes, maketha fingular foile to lay

vpon barren and hungrie grounds. it : via loow boared

When the Iton flone of oare is burnt, those fine alhes that are lifted from the fame, doe proue a most excellent substance for the enriching of Neat meadowes; or Marith groundes, especiallie such as are rushie, flaggie, or fedgie, and will bring the same to a fine sweete graffe : you shall finde the ground enery yeare better than other, with a manifest and apparant difference betweene that parcell of your ground which you have enriched therewith, and all the rest of the lame field, both by the glorious greene colour which it carrieth and also by the delight of the cattell continuallie feeding thereon, and refusing the other till that be spent. There is plentie of this matter to be had in Suffex, Effex, Wales, and fuch other shires wherein there hath been any long continuance of yron workes, and those hils which consist of this matterare worth the breaking vp, though they be auncient and have lien long vncouered; but the best and hartiest is that which hath been kept alwaies concred [61] and

of fetting of Corne.

and defended from the raine it his kinde of foyle is alfo good for wheate ground, and three loades thereof
are a sufficient proportion for one acre; and if you intend the same for graffe, you must spread it you intend the same for graffe, you must spread it you inground about alhallountide. The light of this secret I
received from a Yorkeshire Gentleman, a man both
of great gifts and great possessions, who assured me of
three yeares triall made by himselfe with very good
successe, whose opinion is, that three loads thereof
will enrich one acre of ground for seven yeeres at the
least.

Sal Armoniake being a volatile falt, first incorporated and rotted in common earth, is thought to be a rich molde to plant of set in (quere of steeping graine in water, having a trew proportion thereof first dissolted in it) but he that can prove so fortunate as to finde out the trew Sal Armoniake of mettall, shall be able with small quantitie to worke great wonders in this kinden and sale and sale and sale with small plants.

Dogges and Cats, and other beaftes, and generally all carrion buried vnder the rootes of Trees, in a due time will make them flourish and bring forth fruite in great abundance.

Gentleman of good worth vnto mee, euen-before this worke was fullie perfected, which I have referued for the conclusion of this title. Hee affured mee of a gentleman, at this present dwelling in Cornewall, who being very industrious, and searching into the workes of Nature, would needes attempte the sowing of Wheate in his arable groundes, being of such kinde, nature and qualitie, as was meerely repugnant and vnsit for that graine, as the experience

anin

The new found Arte

of the greatest part of the Countrie round about him did manifestly declare. And this he performed onely, by infusing his feede corne soure and eventie houres in a strong liquor; that had descended from his muckheape into a receptacle of bricke: but he neuer insused his corne (as I am informed) till the liquor had been of two yeares date, and he alwaies dried his corne before he sowed it: quere if in lesse time and without drying, the same effects will not follow.

CHAP. 7. How to make choice of your feed corne.

Con Vch corne as is rubbed betweene ones hands out of the middle of the eare, the vpper and neather part ther of being first divided, I hold (with Bup! Porta) to be the most fruitfull feed of all the reft, and that the hand, though it bee a more fabourfome worke, doth performe this better than the flaile. which maketh no division of the graine, and yet bruifeth a great partthereof by the violence of the stroke! But if your threshed wheat content you then is it best either to picke each corne by ir felfe, and fo to divide the good from the bad (which is a fit worke for children, and may the rather be endured, for that fo small a proportion of feed will ferue to fet an acre, viz. 12. pintes thereof, if each graine be at flue inches diffance. as fomehaue observed) or els to powre your corne into a tubbe of water, fthring it vp and downe, whereby the best and heaviest cornes will finke to the bottome, and the lightest graine will fleete and flore in the toppe, which may eafily be seuered. I know no other meanes feruing for the choice of your feed corne, fauing

of letting of Corne.

uing those which are so viuall and common, as that they descrue no place amongst new inventions, and therefore I do here aduifedly omit to touch or name them.

CHAP. 8.

The difference of yeeld betweene the plough and the Gade, with forme new addition to the plough.

E that reapeth foure quarters of wheate out of 32.4 90 one acre by his plough, doth hold himfelfe well contented, as with a rich croppe, which is eight at the least for one. I know the greatest number do scarcely amaine seuen for one, and many but six for one: but if he haue ten or twelue for one, then hee acknowledgeth himselfe to have received an extraordinary fauour and bleffing from the heavens : yet (because both happily, and by credible report it is come to my hands) I will heere fet downe one rare experiment perfourmed this last yeare with the plough, wherein no doubt the Actor did striue even in the ftrength of his wit and spirit to make the best imitation which he could of the spade. The ground having a naturall declining or descent by his owne scituation, was first crosse ploughed with a very deepe cutting plough, and then ploughed ouer the third time with a shallow plough, that made very close & narrow furrowes; then was the feede fowne by a skilfull fower, and then harrowed ouer; and by this newe practife the owner obtained 15. quarters (I dare not fay 20.) vpon each acre which hee fowed. I doe not cite this ftrange & admirable experiment, either to ouenhrow the whole frame of my former worke, by vndermining the foundation thereof, or to hinder the labours of

wis 8 foron

The new found Arte

of so many thousands of poore and distressed people, which by digging and fetting are like to be profitably employed in this land by meanes of the spade (whose estates with all Christian commiseration I doe pitie, and am willing to relieue) but professing all the good I can and by all the meanes that I may, to aduaunce the common good of the whole realme, & knowing that if this new practife of digging by good fuccesse thereof do happen to become generall in and ouer the whole land, notwithstanding the realme be populous, & furcharged with infinite numbers of poore men, women, and children, and maimed fouldiers, that yet there will scarcely be found workemen enoughfor the tenth acre of land; I say, for the better increase of all such grounds where the plough must of necessitie be ysed. I was bold to insert this inventition, to supply the defect of labourers, which otherwife of necessitie would ensue. And yet if I may beleeue those infinite reports, which are now with open trumpet founded into each mans care in commendation of the spade, there will be no coparison betweene the plough & it, though all men would iowne all their wits together for the better furtherance thereof out of many of which reports. I will only remeber these few.

A Iustice of Peace & Quorum of my acquaintance, dwelling in Essex, and desirous to make a triall of that wonderfull experience, so commended at the Court of Requests barre by a Counseller, who had seene the same the sommer before, would need set a parcell of ground with his owne hands, as soon as he came from Michaelmasse tearme last to his house: in Aprill the same began to shew verie greene and full of blade, and in haruest time each corne brought forth at the least

of Jetting of Jorne.

27. eares, some 30. and some 32. with force graines in each eare, whose proportion is at the least a thou-fand for one. For the truth of which report, I dare gage my credit, I know the Gentleman to be so tem-

perate and well aduised of his speech.

Surrey, who hath reaped 16 bushels out of one pint of wheat which he set, and that some cornes brought forth 40. & some 48 eares having 66. 68. & 72 cornes in each care, I could name the Gent dwelling, & place of the triall, but this which I speake I dare warrant to be true, having good ground of credit for the same.

In Northamptonshire there grew barlie this last furnmer, amongst the which there was found some rootes having 120, eares upon one roote, with thirtie

graines at the least in each eare.

Thaue also heard by sundry reports of 20. 30. 8. 32. quarters of wheat vpo an acre, & of 15. quarters of barly vpon an acre, yea there have been somewhich have reported, that they have had 15. quarters of wheat vpo one acre by this maner of setting, the ground being spent and out of heart by often plowing before.

And if I should report all the seueral trials that have beene made by seueral persons, as well of the Nobility as others, within these two last yeares, I should both weary my selfe with recording, and you with reading such infinit numbers of practises as I could produce,

sedex his reliqua.

I wil here either borrow leaue, or comend without leaue, a new, light and portable Pumpe, being of late graced with her Maiesties most fauorable priviledge, which I am bold to publish, together with this artistical husbadry, because I know no better means to give a

pub-

milite notice thereof vito all my country men then by this pamphlet, which taking the wings of fame vnto it is like to difperfe both it felfe and his compartion abroad in a most speedy and sodaine manner through all this litle Iland. This Pump is of wood, & moueable from place to place by one mans labour: it is kept with verie small charge in good reparations: it is cheape, and delivereth great store of water in a little time by his double stroke to a reasonable height; it occupieth fmall roome it serueth to emptie Cellers and ponds it is verie necessarie for all merchants ships, and other thips of warre, whereby all superfluous water may bee fafely conucied out at the neather port-holes in agreatleake happening by fight, or otherwise. But the most generall vse thereof (as I take it) will bee for all those stately houses and buildings which border voon the river of Thames, or any other river, whereby they may receive fufficient store of water to serve all their offices and gardens belonging to the fame. You may hearefarther of the Authour of this Invention by the Printer hereof.

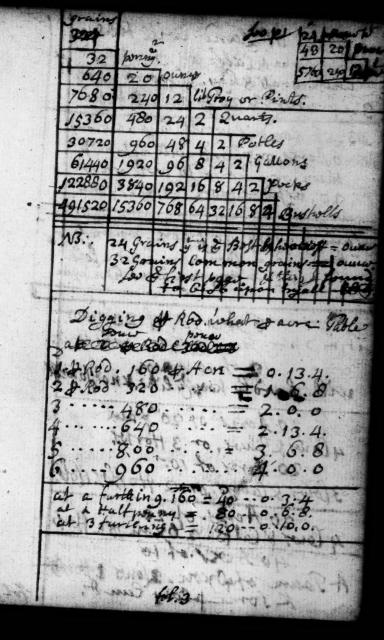
as ochers), wichin cheferwo laft verres, I fhould both weart any followigh refording and you with revising faction in nambers of pracultures I evold proclame.

And I thould reconstitute fearest wints that have



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30 Quarters & airs = 240. Bushals. (500.000. grains in al The 120,000.000 gr. 172 almost for . 1. mon & 171 fort / at 4 incluy doop & 4 inches Diffance zally in 20 Swarters & Acre. = 160: Buffels. (500.000. grams in a bushole) 80,000.000gr at 400.000 grains foun. & product \$ 200. for & Acct in Houghton Collect fuglandy from one grain so sais containing . 4000 gr Acr Jable of freder Kly of Defances 6. 272.640 32.003. 27: 9.604 1.568.160 29: 9.000 27-879 20: 7:458 - 68 Ay 39 15. 24.502 . 392040 16. 20.703 250.906. 32: 6.125 17 19.360 33:5760 174:340 18 17.372 34:5.426 19 -- 128.013 15.691 7 98.010 14.223 62.726 37: 4-581 12.960 22 39: 4-125 15.857 23 40:3.920 10 889 51.840 41:3731 24 10.030 42: 3.555 43.560



4 Acres of Land will hope with grass & hay if worth Isper 3. if worth 20 f acre & hour M3. if land is worth 10. 1 acre only 6 fors, or 7. or 8 will not keep them on a horto fo will as 3 cf 20. By Jidos more Range of fener Land is worth 20 & aer gonerally or mon of Hay muy le moure in sofon 6 Acres of 20 pair if in a parals. 2 four or s swith Hosp. will hardly knop y like knot fourth 10 Acres of 20 yaux 4 Cows & Polos, or 3 Horkes. 3 Cows & Calves, or 2 Horfy. 160. 4 Cour & Cal B. 20xon 1 a Hork 40 A OCI. 01 10 A Pour of Dyon. 2 fows 1 Horse Fol 4

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for Backward after 1. Wet Now 8,000,000 people at 12" or 8 of Wheel, sad to be confumed in a year is = 64,000,000 byll Now 20 but to boy product of an Acres 2. How many Airs, will product foffices (4 prode 20 = 3.200,000 Acres fundar. 24=2.666,667. 28 = 2.285.714 A Coador, 40 = 5.600,000. is is but 15 of 40 Matt. 44=J.454545. 48:1.333.333. 52:1.230.769 56: 1.142.85 60=1.066,667. is is but to of 40.Mil 64=J.000,000. 10 paret 72 = 0.888.888. is is but to of 40 min 20 2 par 80 = 0.800.000 Joopg 24. 100 = 0,640,000 120=5.33.333 back. 240 = 2.66.667 wis lit to of 40 mill. Now 20 buffolls is a tolorable cop fruiter & alt. 10,000,000 Arable 31 unbet 3.200.000. Wheat for Barby 2024 JI (buffellet ans wig Tuice maj- (munon crop.

ters by Wheat : 3.2 Mill -64 mill - 8 mill . Borloy 1.8 mil .64 -- = 8 mill Out 5. mil -120. - 15m Pool -Booms . J. 5. gtopps: mondow Poffurs. Woodland fondy x labor commons. 30991) Jown 1499 Churchy hurshyod Pol 10.

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Oatrs. As Oates are fown after whoat & Borby with Cover - Non land is cannot Ever villor wheat or Barby. I cannot convive but of mon fors I take for Granted 5 Millions. now Daty product from 26. to 40 goor.
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16.00 00. 8.00,00 -4-16-6.90.00 3 - 8 - 7 -3.15.00 2-13-4 19.04 2.8-. 2.40 2.3.8 480 480 2.0, 9. 1.16.8 480 1.16.0 1-14-3 490 1.12-0 480 19.0 480 (ower than thing not) for good Hopps for 1.8.3 80.000. 1.63 1.53 1.4.0-480.

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The Accounty on & other lite an prett exact sways with the fronter only that y Common Confumption in plontiful years an 60. Buy X & number of Hors 1738 were above 1/10 K lo or of now (1738) mon & no bookins. 13. 40,000.000 forsy in ing land the the progoco A Roview & Duty do . 60.000 (m from at 10 p Him wid gives 150.000 - 4 3pt = 45000 at 5 things years gives 18000 fers. al 4 thursts -- 22500 Hons. at 3. there -- 30.000 fasts, AR BOOK BOOK AR 17.000 acris. 1737 21.000 acres July 86.576.17.64: 1798 1739 July 38 4 baggs for 10 Hand) gatry: 98,000 = 1 156.00 000. Lugger 10 2

Hops planted at such & for platter finchs. 6 feet 1210 Hills 0 - Giney 1034 2. 6 t cal i met Differen 8 - - 980 gadon 6 -0 - 4 ali 3. 2 left Sa Povel 6.10 - 932 6. 11 - 910 2 Kapisky 17 egallos -890 gallo I gal 10 inchy --- 868 - 4 printy 14 moles . -- 847 2 pinh 19 - . - 8 28 13. 81 80 ford to a Pint 7.4 . - . 810 68 Troy of 56 Aver. -- 791 . - . 757 741 7.8 08.0:124 ·* 725 7. 10 7.11 -- 695 8.0 - - 680 qui good toamint. 8-2 --- 653 8.3 sk-640 BUNGE 64 mals 8-4-100, 627 in a Both 512000 gramy 8.5. .. 612 12 Bath = 6,14,000 8.6600

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Willow Sichonory of Grafter. Saintfoin or Cookshoo Onobigilis Will last 20 your upon dry gravely or or Chalky Soil: 36 on an aire to be foron in March in Rows, in dry weather the not will forsad 2 feet wide. Not to be fown with form in drills 10 afunder & at Bincher Distance not to be fed of first your but mowed, a other harmed, requirely Removed for I thay lying on & ground, or tardy next Crop - Low Tules poles on proposes 254 Mani- to drill at 20 diffance & ouch plant at 10 - log. 1 ab. 1. dup. if planted helf a buffield fufficient the 7.6 often foron 254 KIS . . 200

12: 2 = 98 Galors; will plust an Aus 6.272 640 Los at 1 inch Diffuner . A Squery 1568160at . 3 696900. 392040 250905 25 at 6 4240 3 128.013 at /8 .98010 77.440 40 81 62.726 100. 100 al 10 51,849 4 at 11. 121. 43560. 144. ah 12 136. 62.8 - 64 8000 A Pint . 1.12 1.15. 2 16,000 A Quart 64 000 A Gallon 512000 A Buffiel 190.500. 5/2 09 6 000 A Quarker 2240, 2500. 2560 1480,000 5 Quarler. 1792 2000, 2048 if a Buffall wright 62 842- - 2000 But at 112. to 4 think is 2240

La Lucern medica miller Die or Burgundian Hay I Howers are purple, Violet or yollow Wielet & both & wollow by worth fort it has done well, fown in Autumn but best own in April in a light Dry fandy varth, made very fine. Maker a drill sinch dep & & foot Scattered very thin, & covored about an inch darp fet 2 feet diffance another will de 6 to an fire & no more to be wirded by a breast place but hand tood & first your _ Tre foil commonly pealed y a Medica io & yold flowers. Lucern will not do well in England In rafon in Gulls book of for Quen Mericago Cylifus.

7680 gr = Apouni Troy 320 gr = 20 mur. 1:31 8000 a pint en go or 2 Quart = 2.4.1 Groy. agallon 8-8.8. Afasholl - 69.4. But the state of the state of the state of the make a fill and Sup & hills The Hood were their winders to History and supplied a fact the supplier another built of on the keep man the second of the RECORD CHARLES The Boll town was no hour do not him took on a same and Charles from the of

Clover: Infolium Miller Tich s Trifolium. I greater Purple called Clover 2 Honoy Jukle Fre foil cornon in Meader 3 White madow In foil. Clover 10 onean acr fown . But not too 8 sop. about & Beginning of August, buf Harrow Not foun with lorn, or Ryrgrafs. Spring crop best for food, on Vayor land Cattle to be Rd w & Hay in Racks-Green aft to hove Cattle Clover at 13 Gollow of w = 112; at 70 for 8 gallong 7 4 35. 72 72 18.60 at 70 for 8 gallong 7 4 35. 36 4 34 (gall 18 = 113.79 194 - 4.5) 8 To it is warest weight of good for the Buffer s & Graffit en 68. gives 12 thon 112 = J. a. o) 70 - 14 thon 112 = 3.29 } 112 = J. 6.0.) 5 = 34 --- 9 1.6.69 5 = 34 --- 9-5 18 Hon 112 - 1.60 plugholl) 1.500.

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British was the tent of the second and investor Phys CARL COMPANY SHARE L. C. SHE ST. H. WILLIAM his Hout of has a from 22 Comment of the wife from 1976 1812 I the former where the war war will in the I group of above fisher the approximation of the san from the The state of the s A Parin Manager Street Street should be a someth 600 612 ASPA To the same of after English Sign. 415 More a pint of the second second THE TANK State Dange 18 18 080 4 C Million Committee 13.4 TOO \$ TO THE BORNE West Dank Sin 4 S 10 1 34 5

Quantity of Dad to plant, 32 grains of Wheet a promy windl 9 52 24 20 pound weight makes an Dure 640 480 12 owners a make a pound Troy 7680 5760 x 7680 this thouts by sh & givet. 57 60 522240 grin Comon Dr. hourifflom. 391.680. But good wheat weight from 60 to 64-thon I support above flather measures 20 The a Buffield will plant an Acre at 4 9 , stame or 32 3 will plant 2 terry at 5 inch different Commongrain or 32 to Boffgrain of 24 to 392040 Bufford Buff 522240 196020 之为 立Buffed 264120 98010 Kortsch 130 \$60 1 Poch 49005 tellon Gallon - 66080 24503 Pottle Police - 32,640 Quest - 1 2251 quart - 16320 Pint --- 6,126 . 8.164 Pint -Now a pint is faid to Bo _ a pour Troy
now if 76 80 = quart from or 5760 opint
15360 = quart 23040 Polite 30,720 a folle 46080 Gallon 61440 Gallon 122880 Pock 92160 Pople 184320 ± may 243760 16mgh 368640 Buth 487520 Buffist = pound Day 30 for p. 32.

Mancosot of January 6. 272.640 for planted 4. Root at 2 indy. 1. 568.160 160 14 Rods. at 3 -- 0.69 6.960. 4840/9/ yest at 4 buffel 342.040 A 35 60 Solfert at 5 .- 250905 at 6 174.240. 6.272.64 al Julies. at 7 128.000. 4×40 = 160 Ka at 9. park .. 098.010 at 9 077-440 5×32=160 at 10 -- 62.726 6 x 27= 162 at 11 51 840 7 × 23 = 161 cot 12 orafort. 43.560 8 × 20 = 160 at 13 . inch . 37.116. 9 × 18 = 162 at . 14 inely . 32.000 10 x 16 = 160 at 15 27.878 11 × 15 = 165. 12 × 13 = 160 at 16 pott 24.502 at 17. 21.704 at 18.764 19.360. at 19 .. -17.375 at 20 · - 15.681. at 21 --- 14.223 at 22 - 52.960 7680 gr = a pour at 23. 3.11.855 Aran 7.10.890 107 - 320 at 11: 360. at 2/50 2. 19.279 8600 gr Pint 4 13.302 4 13.302 4 13.302 d 2/4 4 8.000 at 2/1d 6 . 6.969 1 18: 198 at 3 fut ... 48 40 al 4 fust - 2722 AT 18.F 134 at 5 test - 1742 120 109 at 6 feet 1210 et 22 ... 90 24 -- 75 at 7 \$39 at 8 ... 6080 30 ... 48. at 10 foot 9 435 33 - 40

mr Ward always found a pound Air to waigh 14.11:15 or 1:2:11.15= Thon 68.6.12.4: = 56 Averdum 6.0.18.5= = 5. Averdupris 17.0.3.1 = 14 Thun 7680 = 120/ Troy 1280 204 mon 8960 = 14 ougust 352 11-152 93272 = 14,11,155 But 68 pour Proy = 5226452 And 56 pour And = 5223401 Thorofor moward act. Wrong * Now 56:05 522340 6 Standard. 68 522240 mly offer 12 56 4 56.12 = 26 28 6.16 5.2.11.12 = 26 67.10.16 in few 415 = 26 12 6 6 6 4 6768: 522240 12 6 6 6 7 5 7 22240 6 12 6 6 6 7 6 8: 5 22240

for fond moon . 6 13 a or gu Whodon meal 7 fr = 8-6-4-0 Gray. Thom 56 to = 60.1. 12 - 0 Day 744 J - 8448 w is exactly 32704 323264 1.2.11. 56.14.616 522340/36 8 30.16 10:560 gran gra gran 67 99 16.5 24/868/36 56 4 67.10.16. 9:40.63 1 16.4 68:0:12.4 68 . 0 . 2.83 3 20.000 gr half 57-10.18.8 2.8 9 5232649 holds 680.15.4 pint 8.176. or. 8.160

I Joney Moor Water 1. Do Aneroupely 1.725563 inhorseparts 1 hours Froy . 22.736 83 Jolio inchis 76 From & folio foot. ms. 68.56:: 76: 62 5892 Table of ounces Troy. Table of ours Ausiuping 1 172556 in includ & P JI J: 99490 3. 29480 3.45112 3.5.68476 4 600294 4 7.57960 5 9.02780 6 4.47450 1035336 13.36440 12:07892 8 13,80448 1 326430 15.33004 15-15920 917.05410 11 18.48116 011844900 12/20.70672 120.84390 13 22 43 228 22.73880 14 24.15784 15 25.88340 60896

a lubis foot suright. MI Boyle Whoat 48.8.09 60.12=0 36.0.0 12 July 64.0.0 White Pool 50. 8.0 1728. Cubic Berley 41.2.0 48.0. malt e Minde 30.4.0 36.000 his home 156 Brans 50.8-0 24 grains. 64.0 3 Teruply Wheat Mys/2 31.0.0 8 Jam Authoral.) 28.0.6 16. ours Dump Wal & 62.8-0 La fall . 43.10-0 9760 34 Ja 384 Wood effor - 58.5.0 A Cubic inch of what. 0: 37628 2.65757. magnitude. 272 4 (ubise Juch = a gallon 9:13.12- of Water = a Gellon AVofit 16:48 sach files 6:48 1728 Cabic foot 2178 Bushine 5184 2592 272.25 3888 2178.201 1679616 2150. Bath 1728 2519424 432 2710977 21.00.

56) 244. 4. Another 84.17.0 7 .2:18.16 But adopt 68.0.12. 4 grains = 56 Averdupois. Grains to Agas the of spallons Supp for min 520.000 2 60 000 Foot 130.000 8.000 grains to a pound Troy : & spirit . 68:0: 68 Troy near 56 Ay Trupois viz 68 0.12.4. 544.000 grains to 56 Amerdupois 40: 544 000 57 Auros - 560 000 gr 3076.000 272,000 584.00 ogr 136.000 61 Avon 192.0000 68,000 600.00091 608,000 6.16.000 490,000 624000 632.000 90,000 40,000 69 Au 64.000 .000 12.000

to a poured fourdupois 9719 on 8 mm 156 16 auso 2496 5760 = asound Sry at 24 gr - 76 80 at 32 grains 491520 Ao a Bath of 64 8004. 522:240 grains to fuch Bufle. 3 68.640: Ddy to make 65 391.680 grains to buch Butholl; Divido vach by 50. affrodupers broke 93.25 to a found tverbipois. 6994 to a transbupor 582 to an our. paint. 437 to an Cur with A gible to a pound 582=727: 24 grains 2 437. 5 X Halos to 2 Jonest by Owner 2/875-1311 321312-5 9216 1748 576.096 Band 50 41750-xits. 3, buf h. 2185 1,032,193 \$ 2187.5 4 bift 26 22 6)2625-2,068384 3059 86.22 730625 4.136.768 3497 8 3500 tapon 934 590,000 grams = 1 Aundysig 7000 gr To a Buth of 4808 552960 5.245 580598 of 63. 5082 · of 64 189814 of 65 199030 668246 543 dram. 437 18 - grains

and foordupois 1: 2. 35 115 2 Jrog grains of 32 grains at 24 3.13.70.14.14: 2.11.15-4 4.10 . 5.30 2 5 6.0 17.13-3 3 7.14.222 6 7.3.8/29 4.10.6.14 43 8.6. 0/ 12-6 0.18.52 19.8.1.28 7.3 9.21 10.11 . 3 . 11= 6.1.122 8 9 .8 .13-4 9 10 12. 11.14.27 10 11-4 192 20 24 . 3 . 9.22 12.01 16.11 30 36 15-4.37 24 3 .12.22 20 40 48.6.14.12 30.5.9.9 30 60 8 14.7 48 7.5.20 40 50 67.12.3.4 58 0 12-4 17.0.3.1 14 8. 6.1.12=

68.0. 10 A Suffiell 34.0.6.22 30 Saut Ct 17. 0. 3. de st prok son 8 . 6 . J . 12 = A Gallon 4.3.0 16 4 7 18 J.3/ 2. J. 10 . 8 3 . - Puart 1. 0.15. 4 16. A por at 24 Grans to a Sis. 20 bis ap Die 760. to chow a 345000 60 pond 18. 1 1 49 Les 394.9 2 Grains to 56 carendarios A 32 grains to a Sis 7680 Les 60 2 391.972 460.800 8 12. 39 972 22028 400-012

Hopps. 6 July 1738. 96.576.17.62 Nº of Bagg 82 454 - 42 pounds. 18. 1.1.0 is & July payable for a Bagg . 2:2.0. support prople of England to be & Millions. 8 Million to confume annually 2 of tops 16. Millions of pouls = 142 857 7. 0. 142.857= 0 = 57143 Buggs. 11.1.0 \$ Bags = 57143} = 60.000 Excito for is fum of 60,000 & I sty granted. So to middle growth 63 743. baggs. when 64000 Dage or mon g a plantifully 8 Mill at 2 & Heind, to Exportation about 2. 64.000 doggs 16.000. for malt at 4 both phows we Hopps

480.000 will buy & whole product of Hoppy work your Supposing to Stock in stand. 11000 - 12 ple 102 2 pound.

32000 6 - 11 3 scorec 48 64.000 - 3 62 3 middles 90 f middling go 90,000 2.4.0 -5 278 lifty 1.17.4.4 172.000 Hops have been fold for 1.8.0 6th xim a very learn of for 14.140 0# Enquiry how many ctors. 64000 Bagy bring Trodius Fram S. Fr 160,000. at 90.000 Bagge 1 Buy - 90000 Horse 1 2 500. 40,000 200 A Bag 2 Bage 3 7 26 666 4. 00 10,000. 32000 3 /3 De 16,000 434 HE 21.000 : 84000 5 Bagy 12 800 Thorston in & year 1738 6 Bagy 10-666 oither lof y 10 to pairs 7 89 9:147 or notes many as 21.000 8 Jagy 8.000. aloud on on Hers Support but 40.000 bags the Hopps will be were 8. week and have Aug. 26 1730 00

3/6 mm 12.4 437 = to an Owner 20+12 7000 69 69 40 a Pound 76332 = 200.+4. 56 pound = 392000 years 16332 = 10. 74. 1919 72 - 10 fl Book 0 10 20 56. 00 Forefore 69. 4. 13. 8 = 392,000 34. 0. 6. 16 = 28 Cornet. 68.0.13.8,55. 56. 200 gp 600 gp 600 gp 600 gp 600 fm A 1 MB not 392 ove Bu 391972 08.0.12.4

a/8. also at 22 miles. 4.0.0 4.6.8 3.0.0 3.6.8 3.13:4 10 20 3.603 34 4.0.8 4.8.0 4.5.4 44 3.12.0 4.0.0 4.8.0 4.16.0 5.4-0 48 3.18.0 4 6.8 4.184 5.4.0 5.12.8 13-52 4-40 4134 5-28 5.12.0 6.1-4 141 56 4.100 3.0.0 5.10.0 6.0.0 6.00. 60 4.160 5. 6.8 5. 17.4 6. 8.0 6.18 8 64 161 5.2.0 5.13.4 6.4.8 6.16.0 7.7.4 68 5. 8.0 6.0 0 6. 12.0 7. 4.0 7.16.0 72 5.14.0 6.68 6.19 4 7.120 8.4.8 76 6.0.0 6 13.4 7.6 8 8.0.0 8.13.4. 20 80 6.6.0 7.0.0 7.140 8.8.0 9.2.0 21/84 6.12.0 7.68 8.1.4 8.16.0 9.10.8 22 88 6.18.0 7.134 8.8.8 9.4.0 9.19.4 29 92 7.4.0 8.0.0 8.16.0 9:12-0 10-8-0 24 96 7.10.0 8.6.8 9 3.4 10.00.00 10.16.8. 29 100 -8.5.0 9.3.4 JO.1.8 JJ.00 00 JJ.18 9.0.0 10:168 11.184 13 00 14.01 8 110 120 . 10.10.0 1313 4 12 16.8 14.0.0 15.10.0 130. 11.5.0 12 100 13 150 15.000 16.500 140 12.0.0 12 16.8 14 13:4 16.0.0 17. 6.8 12.5.0 18:134 15:13.8 17:0.0 18.8.4 13:10.0 14:100 16:16.0 18.0.0 19.10.0 14:50 15.6.8 17.8.4 19.0.0 20.11.8 16.0 160 170 190 190

Juppof an Dx, with 42. 100 Stone Cost 10 of a foto at 2 p flone ywhole 2 forg 25.6 Hint 24.2 2 forg 26.4 yother 23.4 52.2 47.6 47.6 100. Nack . 2 . 6 : at 24: 4-12 25 flows at 3= 134 12 Hour Micking hi 2. 2 at 23/4. 4.12 36 Hons mowpris 2. 4 at 7% .4.7. 2 2% 10 stom 3.4. 2/harrow by 2.0 J. 2= at 25 A Stone ar 24 4.0. Churk top too . 4.4 at 3 Zildow af-1/2 4.4 from tony 1.6 13: 2 Hone 4-1 at 2 mars hib 3 non 1.6 +32 21 2.16.4 4.48 Griffle is 3 . 2.0 at 3 in 25 ch 32 3.10 5.0.0 Verilpris - 2.4 at 3: 50 A.3. 0.18-4 4.6 thoricont. 2.0 al 3. 10 at 23/4 0.16.8 1-1/3 . . J. 3 al 3 = 3.2 = 10 1 22 24 at 2 0.2.8 1.15 thin wall of the 9 19 0 24 at 13 2:11:10:5 64 - 10.8 4.0 at 3. Aump -. 2.6 d3: -6.3 A4 -- 7-4 at 4 . 10.8. 4.0 43% and eldo 8.8 at 3. 3. 9. 14 (10) 1.7. d 22 - 3.12 (a) 1. 1.6 at 2 3-0 Mas ... 1-4 435 7 al 2 -- 10 · 6 17 13 38.8 43 4.5. Flank . 4.6 . 2.2 at 9 Kidney 5.0.5.

Bulls Cows Oxon Paff. Nov. 15 Woight of an Ox at Newby near Rippon workfin on forquarter 29.4: 00 thind of - 24.2 2 at 18 to 57.9: 306.1: 49.6 \$106.1: Sum of & 4 Juenters 106-12 at 8/1/1/me. 185. 3.2. Hedo for fiver lights of 10. 11. Blood & enhail by computaion 33 298:6.2 Ofbroations on above Houghton Kno The for quarter are of the avier & & thind wester. The Tallow money of white of & 4 feather one so An Ox foto at Bury, for 30 fed to Collago bases to Softwation and Ox of soo show at & hether Little Conf 2-000 is 30 4 Smut Clod & 4-00323 75 Luma . Thick - 35 4. 4 or 36 ist bound price. Skanty 2 . 6 = 22 - 3 por forlage in dances. mostolo still Lur, p. 63. Shin -

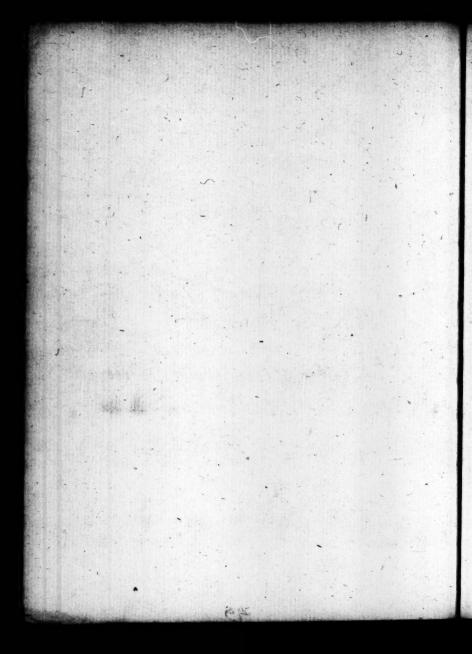
of things a fat Shops Carcofs, to is live wright of a wan floor Carret lot live wright as & The fatter to thoop to Botort what mon Blow in a lean (in a fal ship 56. or 14 a Quarter & Midding fire. I hills a floor of my own folling in wingled 23 ff or 92. 2. they were front or wrighed 14. I they were for you wingled 2. 19. I can large. 90 fometimes, fometimes mon Shoulder 72 7 17 8 Shouts, 14 Log. 19 Bush 4 byn 5 2 other for 45% 56 or 14 #2. 10 -- 10-3 Thoulder -- 73 5 - 6: Nack4 bruft ... 3 ? logn - - .. 5-10% 40% 28

Msl Water of & Colcarious Kind () talky) proceeding from & limestone curry moor Evil - orto flux of y solly & corresponds to & Lyboutery in Man. whorsey Cattle To Spond thempolog in a little time, I they fall areay to thin & fone & fo dyo away, until prevented in is cortainly done by giving thome dry most & fuftering thom to drink of this water only. Plot Oxon. p. 4 I if halk put into water will not do wwill or Rather Lime Water. Botompol.

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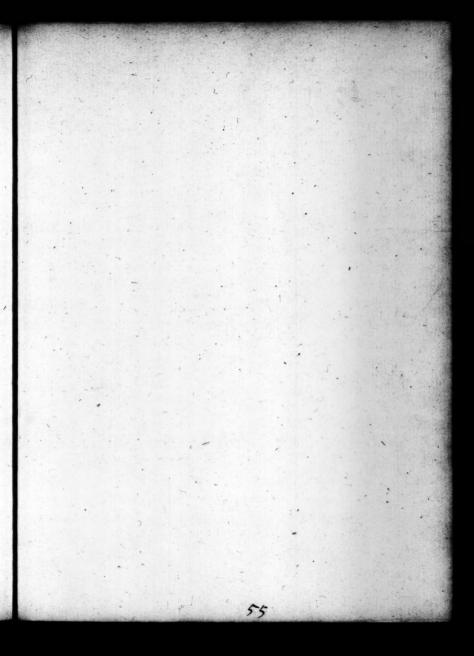


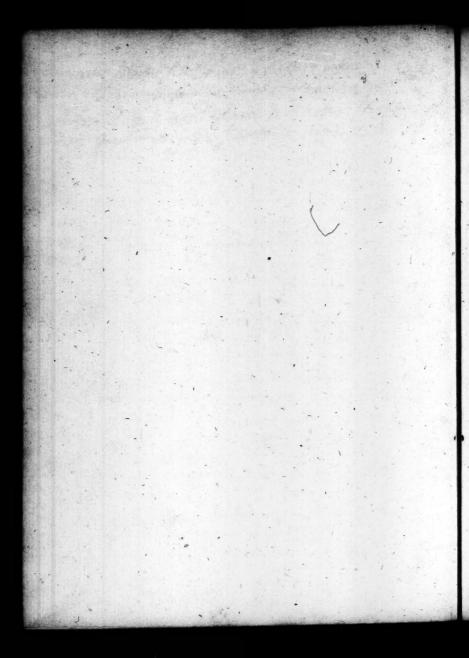
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Harbs. Grafes worn. Plot Oxforthire p. 366. white 3 Cammas Whout Black 3 Ris; Borloy 1 53 366 Rod Stalkterhoat - Joldom Smutty, but uncortain knot good & 2 Trilicum frica mutica afficante granis supsconlitas white sand and whoat white love, or mix fammes. willing 20 fors. it most Eligible com in in Vale 104 3 Tribicum Spice Ariffata Glumis hisfutis .-The long Cone whout, best for rank Cay land 154 not subject to Jodging, nor milious, Fost for encloping but it flower work. it is formalined mixte dhorteless A Triliam multiply sivo frica Multiplice. not advantagious to y triband man, now out of repute Hortourn diffichen procoz Town & returned into Ban Ratherpor or Parney Basley Sin 8.9. or 10 Wary. 155. Dajo strinley gray 2 hod shanks for fresh now broken land 3 the Valo gray for strong and 4 tempshin keds for ball 5 Smal rate new for sover gravely . 6 Colswood for Sover land. Thehos in deop Cay - gove & pololo Volch, in the wift is rathering Dill K founds in poor flone brigh; wis a good por wan for lattel. Grafter. Cover graff - It forth. Ray grafemuch commented might to Molifor Fisfiel & Sometimes nonofuch. (Trifolium agravium Dodonei) 15%. Medica Logitima Clifi & 3 Todonoi. Lucern. 157

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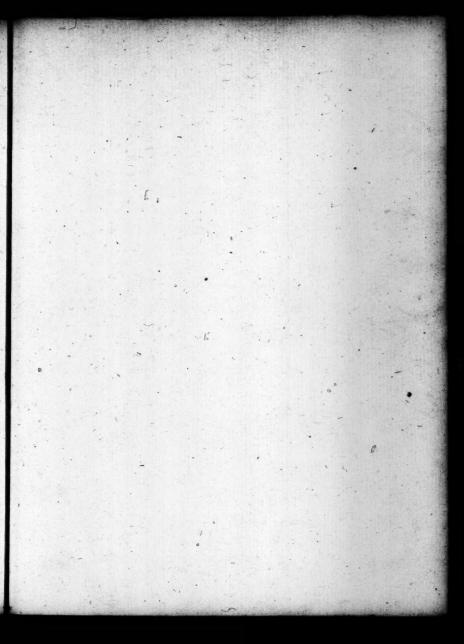
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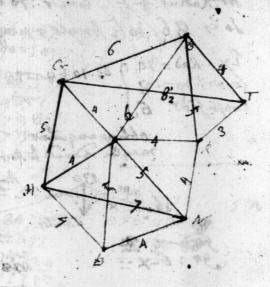
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